

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) An enhanced inserted yellow fluorescence protein, wherein the 145th amino acid of YFP (yellow fluorescence protein) comprises amino acid sequence of YGGSGAS (SEQ.ID No.: 1).
2. (Withdrawn) A nucleic acid sequence encoding the enhanced inserted yellow fluorescence protein as claimed in claim 1.
3. (Withdrawn) The nucleic acid sequence as claimed in claim 2 comprising BamHI and NheI restriction enzyme recognition sites.
4. (currently amended) The enhanced inserted yellow fluorescence protein as claimed in claim 1, wherein the 192nd amino acid of proline ~~Prolin~~ is replaced by leucine ~~Leuein~~ (SEQ.ID No.: 2).
5. (Withdrawn) A nucleic acid sequence encoding the enhanced inserted yellow fluorescence protein as claimed in claim 4.
6. (currently amended) The enhanced inserted yellow fluorescence protein as claimed in claim 1 or claim 4 comprising a foreign peptide or protein, or a part of a protein.
7. (Withdrawn) A nucleic acid sequences encoding the enhanced inserted yellow fluorescence protein as claimed in claim 6.
8. (Original) The enhanced inserted yellow fluorescence protein as claimed in claim 6 comprising NS3 protease's substrate recognition site of human Hepatitis C virus (HCV NS3).
9. (Withdrawn) A nucleic acid sequence encoding the enhanced inserted yellow fluorescence protein as claimed in claim 8.
10. (currently amended) The enhanced inserted yellow fluorescence protein as claimed in claim 6, wherein the peptide or protein, or a part of the protein binds calcium.

11. (Withdrawn) A nucleic acid sequence encoding the enhanced inserted yellow fluorescence protein as claimed in claim 10.
12. (currently amended) The enhanced inserted yellow fluorescence protein as claimed in claim 6 comprising a DEVD amino acid sequence recognized by caspase.
13. (Withdrawn) A nucleic acid sequence encoding the enhanced inserted yellow fluorescence protein as claimed in claim 12.
14. (Original) A bioactivity assay system, for use in vivo or in vitro, comprising the enhanced inserted yellow fluorescence protein as claimed in claim 6.
15. (Original) A biosensor, for use in vivo or in vitro, comprising the enhanced inserted yellow fluorescence protein as claimed in claim 1 or claim 4.